

Inclined Plane Activity  
Honors Physics

20 Points Total

Instructions:

1. Lift a block or puzzle box vertically with a spring scale a distance of 30 cm. Calculate the work needed to do this.
2. Use a meterstick as an inclined plane. In the chart below, calculate the work done for each trial.

Angle (degrees)	Force (N)	Displacement (m)	Work (J)
90			
80			
70			
60			
50			
40			
30			
20			

3. How does the amount of force needed to move the block change for decreasing angles?
4. How does the displacement of the block change for decreasing angles?
5. How does the work done to move the block change for decreasing angles?